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| 61520 | 7590 | 03/04/2008 | EXAMINER | |
| APPLE/FENWICK SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041 | | | PEYTON, TAMMARA R | |
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| | | | 2182 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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**Supplemental
Notice of Allowability**

Application No.

09/815,873

Examiner

Tammara R. Peyton

Applicant(s)

ROSKOWSKI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Interview and Amendment to claims 1/7/08.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 8/29/02.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

**TAMMARA PEYTON
PRIMARY EXAMINER**



DETAILED ACTION

Drawings

The drawings were received on 1/30/08. These drawings are approved.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. The application has been amended as follows:
3. The following changes to the claims 26, 28, and 29 have been approved by Examiner and agreed upon by Applicant's Attorney Sabra-Anne R. Truesdale (Reg. # 55,687) on 1/07/08 and 1/30/08.

Claim 26

A method of transferring data between a first component and a second component in a computer system, the first component clocked by a first clock signal, and the second component clocked by a second clock signal, comprising:

clocking data from the first component to a buffer via a data path using the first clock signal in the absence of a valid signal from the [first] second component, the first component always using the first clock signal to transfer data from the first component to the buffer without synchronizing the transfer of the data to another clock

clocking data from the buffer to the second component via the data path using the second clock signal in response to the valid signal from the second component without transferring other data to the buffer; and

supplying the first and second clock signals to the buffer via a multiplexer having a plurality of inputs and an output coupled to the buffer, the inputs for receiving the first and second clock signals and [[a]] the valid signal from the second component, the multiplexer supplying the second clock signal to the buffer in response to the valid signal; wherein the timing of the first clock signal is independent of the timing of the second clock signal.

According to Applicant's Attorney Sabra-Anne R. Truesdale (Reg. # 55,687) in claim 26 the reference to a "valid signal" occurs four times. The first time, which is in the

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first element in the body of the claim, recites "a valid signal from the *first* component."

The second time, which is in the second element in the body of the claim, recites "the valid signal from the *second* component." The third and fourth times, which are in the third element in the body of the claim, recite "a valid signal from the *second* component" and "the valid signal." The first mention of a valid signal should read "a valid signal from the *second component*," and not "a valid signal from the *first* component." This is clear from the rest of claim 26, which refers to a valid signal from the *second* (not the *first*) component. Also, independent claim 23, which recites similar language to claim 26, recites "a valid signal from the *second* component" instead of "a valid signal from the *first* component" (see the second element in the body of the claim).

Claim 28

An apparatus for use in a computer system for transferring data between a plurality of components including at least one source component and at least one destination component, the source component clocked by a first clock signal, and the destination component clocked by a second clock signal, comprising:

a buffer coupled to the source component and the destination component via a data path, the source component always using the first clock signal to transfer data from the source component to the buffer without synchronizing the transfer of the data to another clock;

a multiplexer having inputs coupled to the first clock signal and the second clock signal, and an output coupled to the buffer, the multiplexer supplying the first clock signal to the buffer to clock data from the source component to the buffer via the data path in the absence of a gate signal from the destination component, the multiplexer supplying the second clock signal to the buffer to clock data from the buffer to the destination component via the data path in response to the gate signal from the destination component without transferring other data to the buffer; and

a broadcast bus coupled to the source component, the destination component and the buffer, the broadcast bus for transferring a ready signal from the source component to the destination component indicating that the transfer of data from the [first] source component to the buffer is complete; wherein the timing of the first clock signal is independent of the timing of the second clock signal.

According to Applicant's Attorney Sabra-Anne R. Truesdale, claim 28 recites "transfer data from the *source* component to the buffer" and "the transfer of data from the *first* component to the buffer." The second portion should read "the transfer of data from the *source* component to the buffer," not "the transfer of data from the *first* component to the buffer." This is clear from the first portion, which refers to transferring data from the *source* (not the *first*) component. Also, there is no antecedent basis for "the *first* component" in claim 28.

Claim 29

The apparatus of claim 28, wherein the source component places the address of the destination component on the broadcast bus and the destination component [supplying] supplies the gate signal to the multiplexer in response to the address.

According to Applicant's Attorney Sabra-Anne R. Truesdale, claim 29 recites "wherein the source component *places*...and the destination component *supplying*..."The tense of the verb "to place" and the tense of the verb "to supply" should match and they should both be the present tense.

EXAMINER'S REASON FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or suggest individually or in combination the limitation of a computer system comprising a first component operated in response to timing of a first clock, means for storing information, means for transferring information from the first component to the means for storing information always utilizing the first clock without synchronization to another clock, a second component operated in response to timing of a second clock, the timing of the first clock being independent of the timing of the second clock, means for utilizing the second clock to transfer information without synchronization with the first clock from the means for storing information without

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transferring other information into said means for storing information whereby the information may be immediately utilized by the second component without need for storage by the second component, said means for utilizing the second clock to transfer information without synchronization with the first clock from said means for storing information comprising means for transferring the information in said means for storing information to the second component under control of the second clock, said means for transferring the information in said means for storing information to the second component under control of the second clock includes means for switching the second clock to the terminals used by the first clock, said means for switching the second clock to the terminals used by the first clock, said multiplexer receiving a signal from the second component for furnishing a second clock signal from said second clock to said means for storing information to transfer information to said second component.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (571) 272-4157. The examiner can normally be reached between 6:30 - 4:00 from Monday to Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on (571) 272-4037. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

**TAMMARA PEYTON
PRIMARY EXAMINER**



Tammara Peyton
March 3, 2008